

MODULAR PLASMA ARC TORCH

ABSTRACT OF THE DISCLOSURE

A modular plasma arc torch is provided that comprises a torch head and a torch lead, and a quick disconnect that is operatively engaged between the torch head and the torch lead. Accordingly, the torch head and torch lead may be quickly assembled and disassembled through the use of the quick disconnect. Further, the modular plasma arc torch also comprises a gas control device disposed within the plasma arc torch, which is operatively engaged between the torch head and the torch lead through the use of the quick disconnect according to the present invention. In addition, the quick disconnect may be used to connect a wide range of torch components within a plasma arc torch, thereby providing a reconfigurable plasma arc torch. Moreover, the quick disconnect according to the present invention conducts both gas and electric power from a power supply to the torch head for operation of the plasma arc torch.